

#### Introduction

# Kyle Headley Regional Environmental Planner (Central Basin) Brazos River Authority





#### Agenda

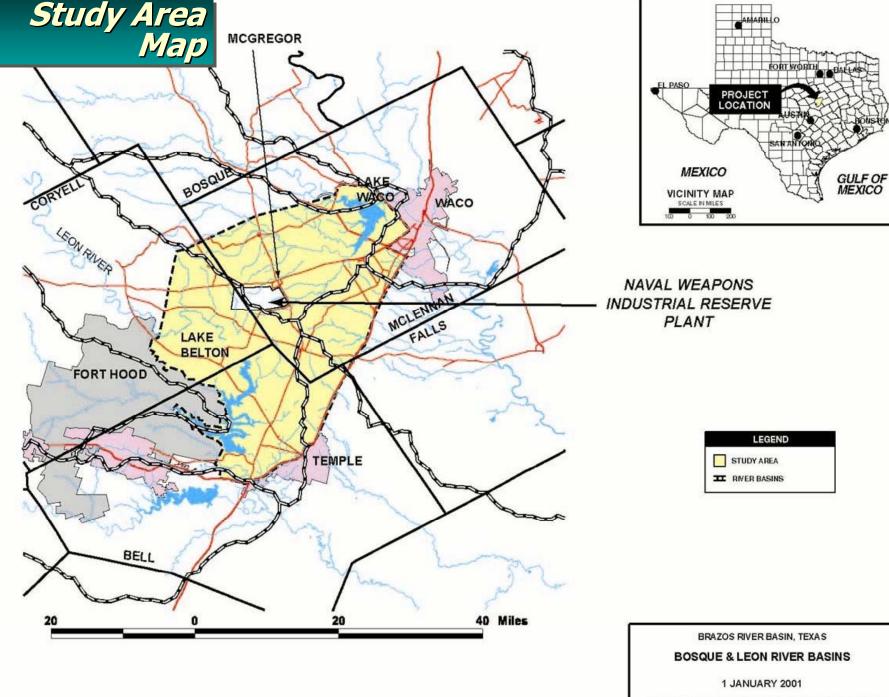
- Introduction
- Ecological Evaluation
- Watershed Studies
- Conclusion

Kyle Headley (BRA)

Todd Anderson (TIEHH)

Ronald Hartline (MWH)

Brian Condike (USACE)



U.S. ARMY ENGINEER DISTRICT, FORT WORTH, TEXAS SOUTHWESTERN DIVISION



#### Project Goal

## Evaluate potential human and environmental exposure to perchlorate in the lakes Waco and Belton study area.

--- Project Team (February 2000)

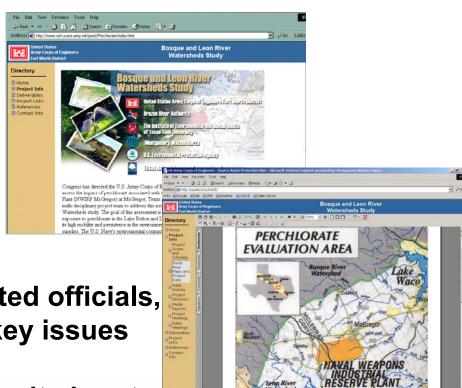


#### Community Outreach

- Stakeholder interviews
- Community Relations Plan
- Stakeholder meetings
- Public meetings
- Briefings for elected official's
- Web site

#### Benefits:

- Ensures that stakeholders, elected officials, and the public are informed of key issues and project progress.
- Provides opportunity for community input





### **Objectives**

#### **Completed**

- Develop effective community relations plan.
- Compile existing study area information.
- Identify data gaps in existing information.
- Define and Develop the Conceptual Study Model (CSM).
- Based on data gaps, develop Field Sampling Plans.
- Field Investigation to fill the key data gaps. 90% Complete
- Evaluate fate and transport pathways.

  In Progress



## Objectives (Cont'd)

#### **Completed**

 Evaluate potential environmental exposure to perchlorate in the study area.

In Progress

- Evaluate potential human exposure to perchlorate in the In Progress study area.
- Assess exposure pathways to vegetation, fish, birds, mammals.
- Assess impact on amphibians, fish, and large and small mammals.
- Integrate data and assess ecological risk
   In Progress



#### Ecological Evaluation

## Todd Anderson The Institute of Environmental and Human Health Texas Tech University





### Ecological Objectives

- Identify Points and Pathways of Exposure
- Assess Impacts on Fish and Amphibians
- Assess Impacts on Mammals and Birds
- Model Long-Term Exposure and Effects